

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
 Data File : BF115717.D
 Acq On : 22 Jul 2019 18:47
 Operator : HP/JU
 Sample : K3887-03DL2 20X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 23 01:18:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	126760	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	501340	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	242375	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	363314	20.00	ng	0.00
76) Chrysene-d12	14.04	240	317024	20.00	ng	0.00
87) Perylene-d12	15.52	264	305551	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	25153	3.25	ng	0.00
7) Phenol-d6	6.50	99	48485	4.93	ng	-0.01
23) Nitrobenzene-d5	7.43	82	28106	3.26	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	10449	3.69	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	52136	3.76	ng	-0.02
79) Terphenyl-d14	12.99	244	44844	2.61	ng	-0.01

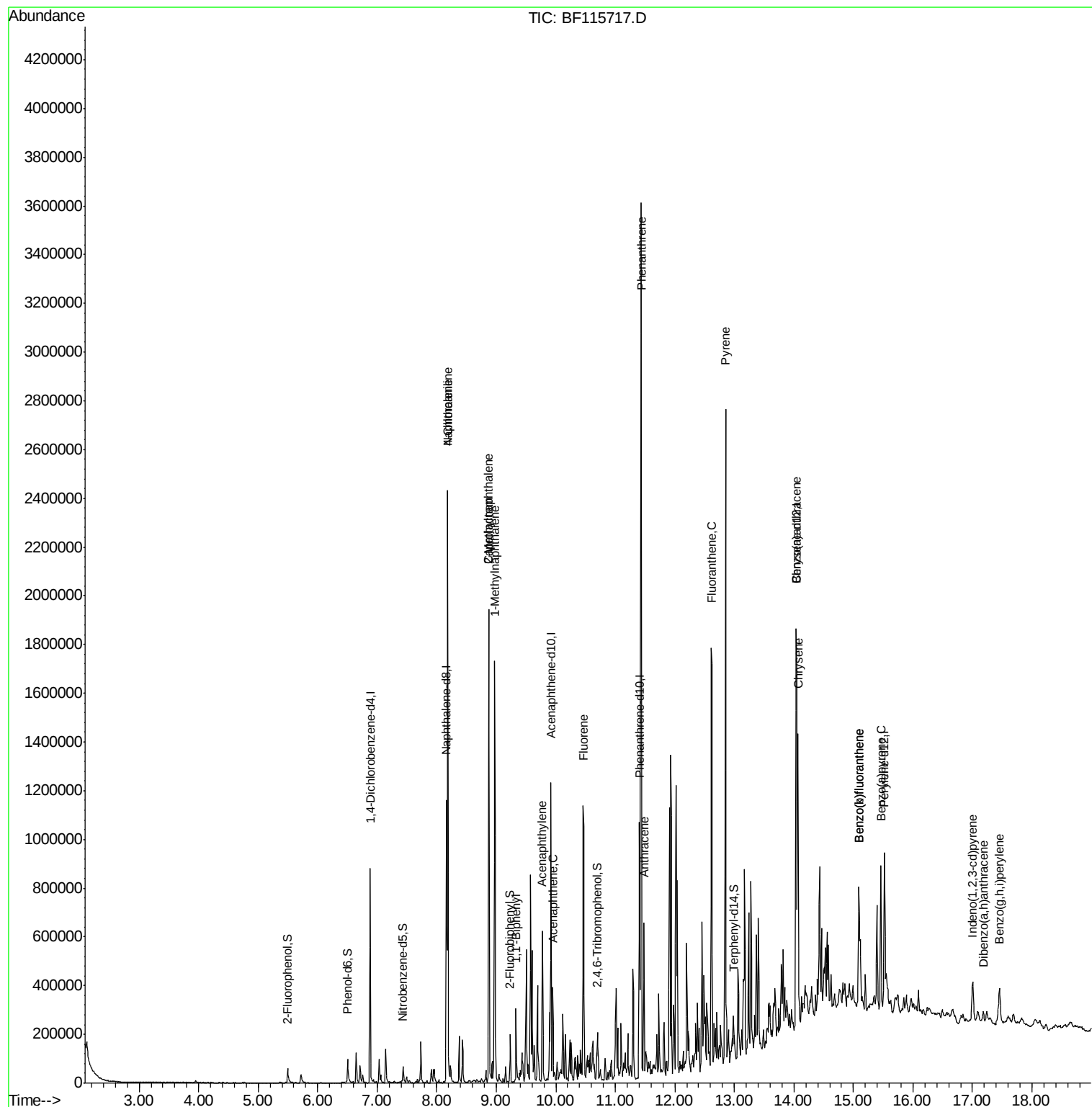
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.19	128	1014905	41.800	ng	97
33) 4-Chloroaniline	8.19	127	135505	12.600	ng	# 35
35) Caprolactam	8.87	113	11174	4.855	ng	# 1
37) 2-Methylnaphthalene	8.87	142	497397	30.905	ng	98
38) 1-Methylnaphthalene	8.97	142	433637	28.366	ng	98
46) 1,1'-Biphenyl	9.34	154	103601	5.467	ng	94
49) Acenaphthylene	9.78	152	210394	8.999	ng	97
52) Acenaphthene	9.95	154	55942	3.706	ng	91
58) Fluorene	10.46	166	317724	20.735	ng	100
71) Phenanthrene	11.43	178	1347497	72.356	ng	98
72) Anthracene	11.48	178	227479	11.819	ng	98
75) Fluoranthene	12.62	202	651610	33.111	ng	97
78) Pvrene	12.85	202	1053882	39.237	ng	97
81) Benzo(a)anthracene	14.03	228	468295	22.422	ng	96
83) Chrysene	14.07	228	457541	21.823	ng	97
86) Indeno(1,2,3-cd)pyrene	17.00	276	107050	6.010	ng	96
88) Benzo(b)fluoranthene	15.09	252	406900	20.681	ng	98
89) Benzo(k)fluoranthene	15.09	252	406900	23.197	ng	99
90) Benzo(a)pvrene	15.46	252	292250	17.282	ng	99
91) Dibenzo(a,h)anthracene	17.19	278	33650	2.267	ng	93
92) Benzo(g,h,i)perylene	17.46	276	122002	8.240	ng	99

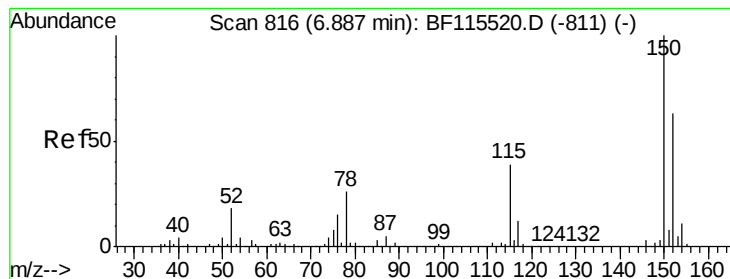
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 12 14:03:52 2019
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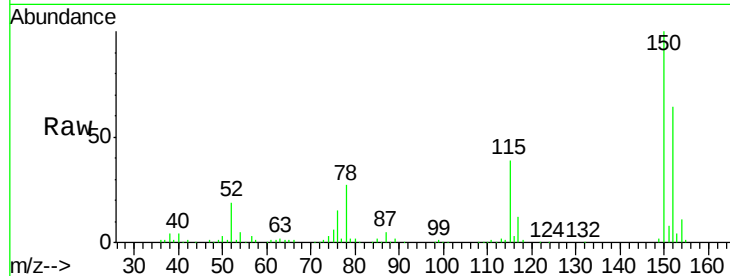


#1

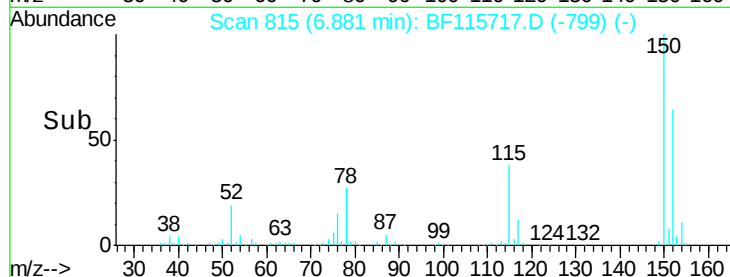
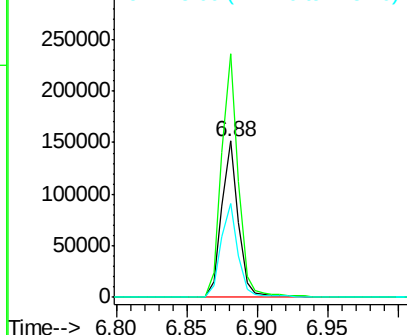
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 126760
Ion Ratio Lower Upper
152 100
150 156.1 129.7 194.5
115 60.2 48.2 72.4



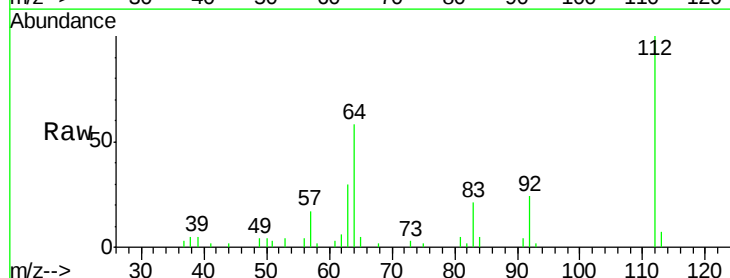
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



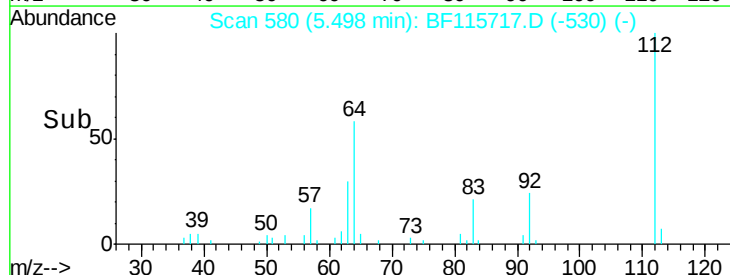
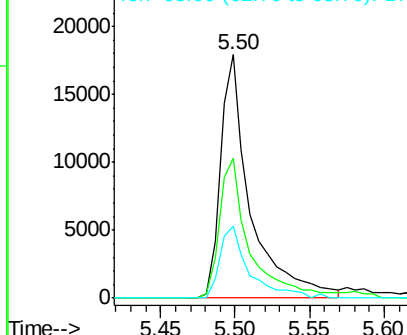
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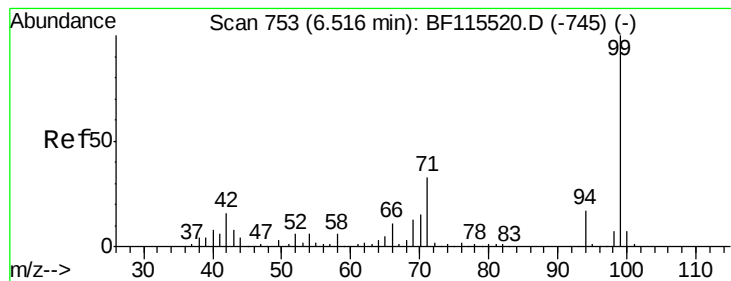
2-Fluorophenol
Concen: 3.246 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion:112 Resp: 25153
Ion Ratio Lower Upper
112 100
64 57.7 46.8 70.2
63 29.8 24.1 36.1



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.931 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

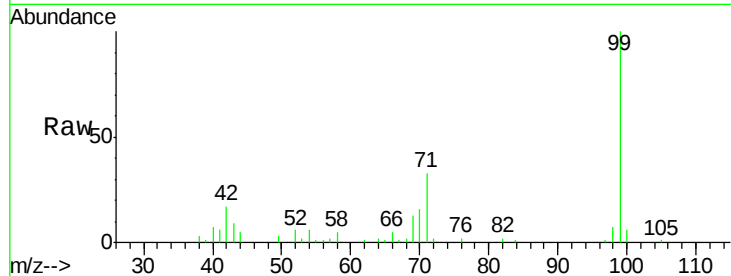
Tot Ion: 99 Resp: 48485

Ion Ratio Lower Upper

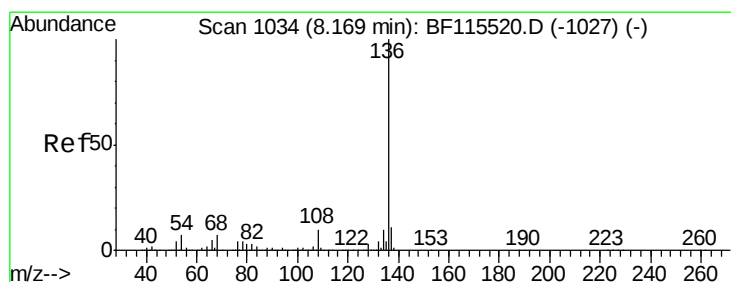
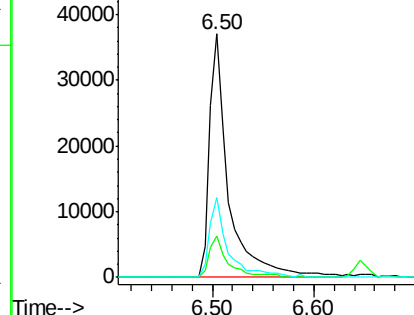
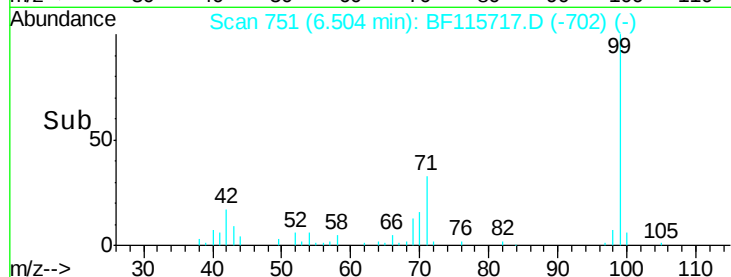
99 100

42 16.8 13.6 20.4

71 32.6 28.5 42.7



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Tgt Ion: 136 Resp: 501340

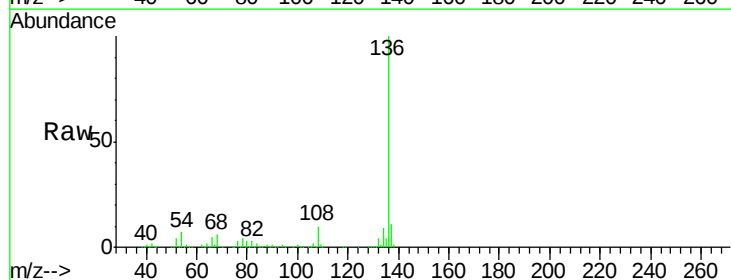
Ion Ratio Lower Upper

136 100

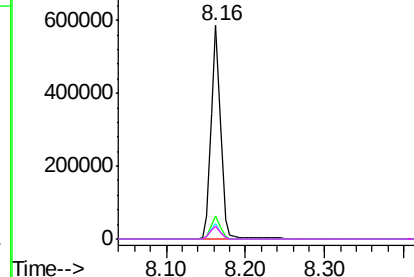
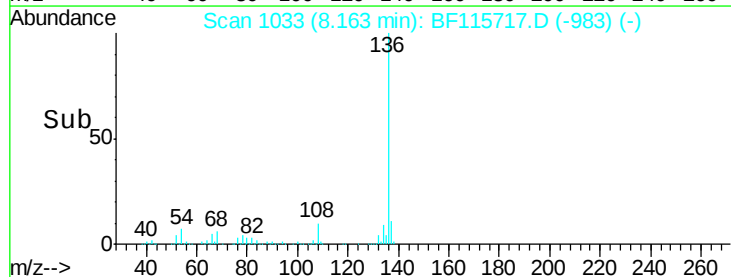
137 11.1 9.0 13.4

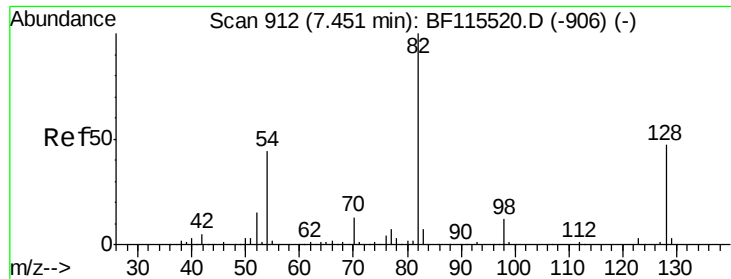
54 6.9 5.6 8.4

68 6.1 5.0 7.6



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

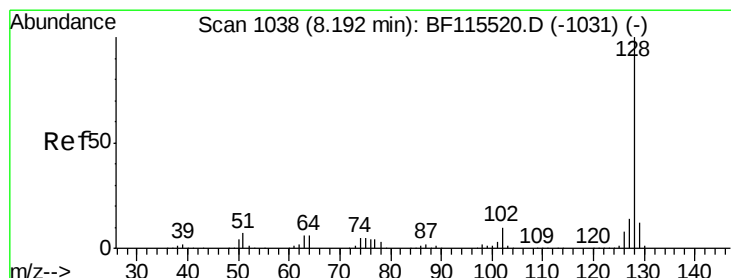
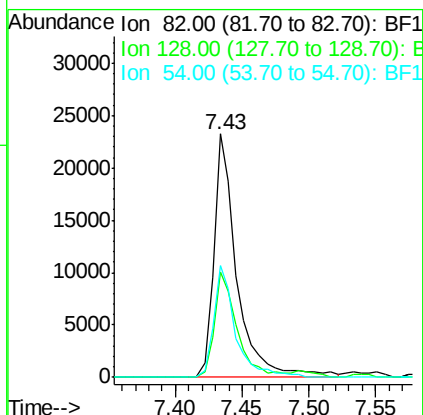
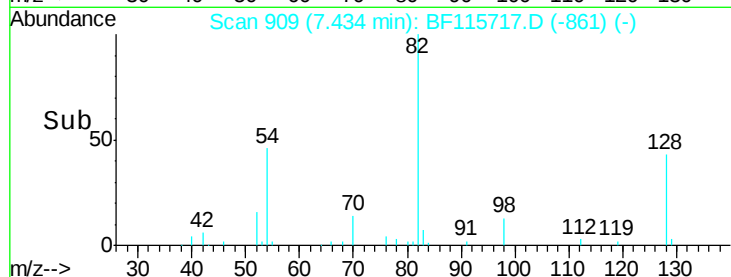
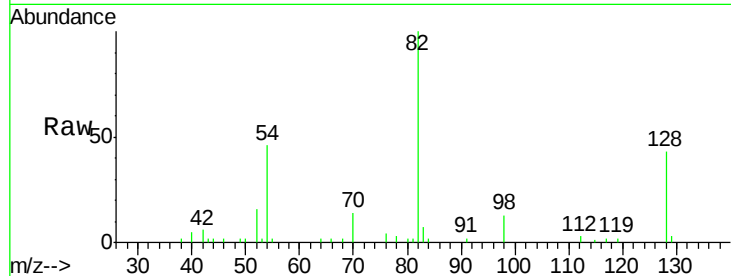




#23
 Nitrobenzene-d5
 Concen: 3.260 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.02 min
 Lab File: BF115717.D
 Acq: 22 Jul 2019 18:47

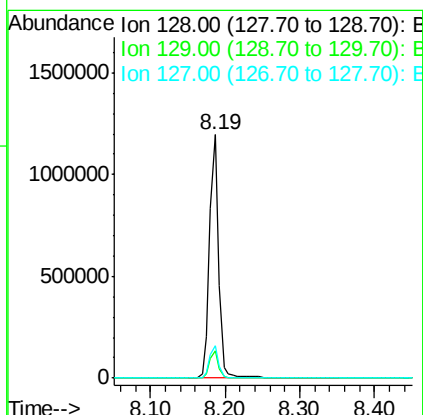
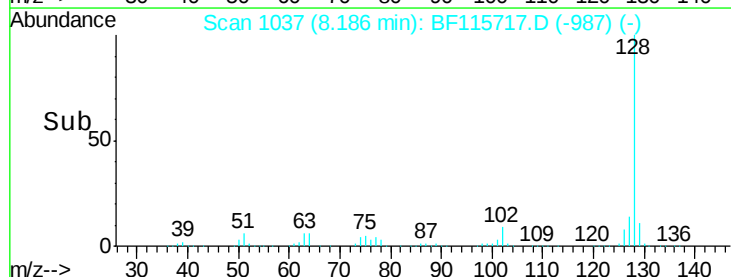
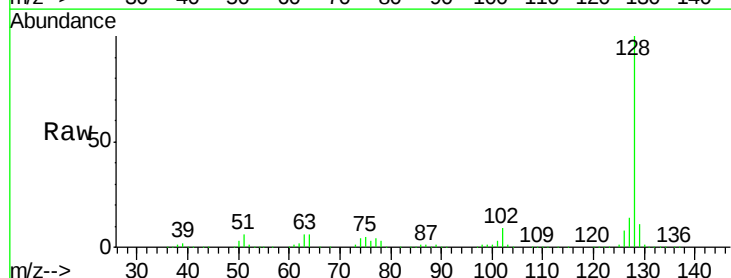
Instrument :
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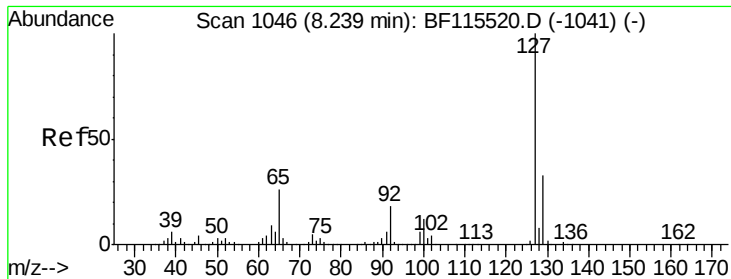
Tot Ion: 82 Resp: 28106
 Ion Ratio Lower Upper
 82 100
 128 43.2 38.6 57.8
 54 45.8 35.6 53.4



#31
 Naphthalene
 Concen: 41.800 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: BF115717.D
 Acq: 22 Jul 2019 18:47

Tgt Ion: 128 Resp: 1014905
 Ion Ratio Lower Upper
 128 100
 129 11.2 9.9 14.9
 127 13.6 12.1 18.1

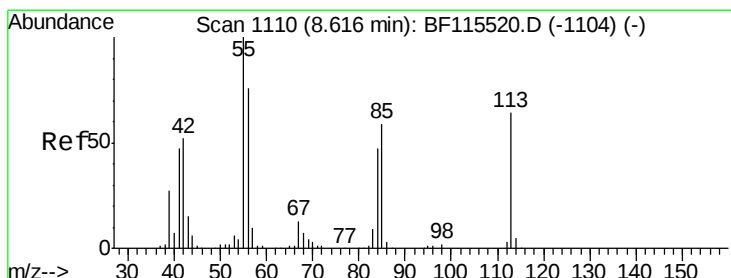
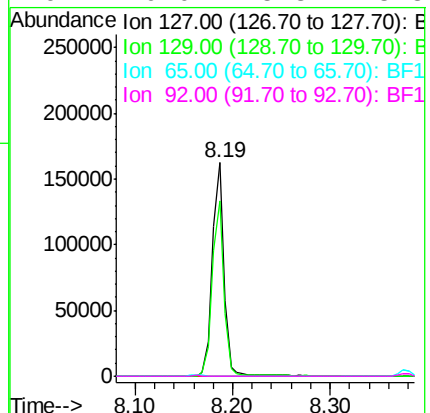
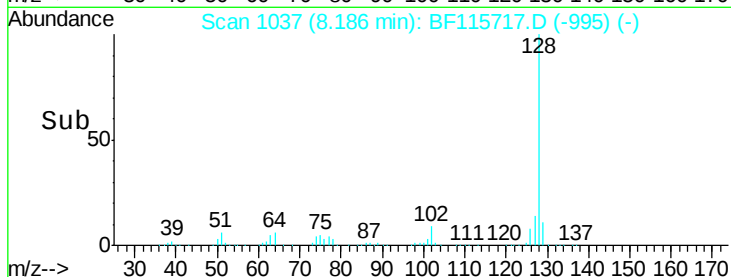
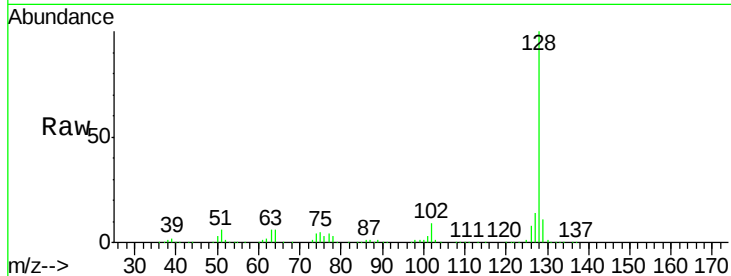




#33
4-Chloroaniline
Concen: 12.600 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.05 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

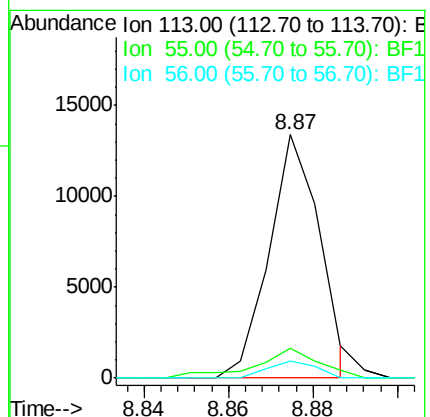
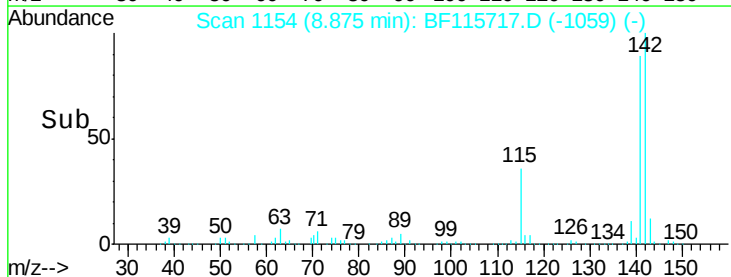
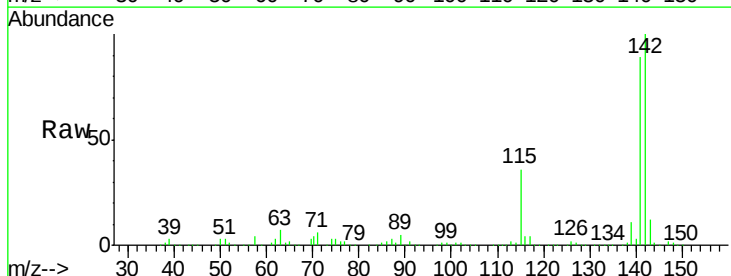
Instrument :
BNA_F
ClientSampleId :

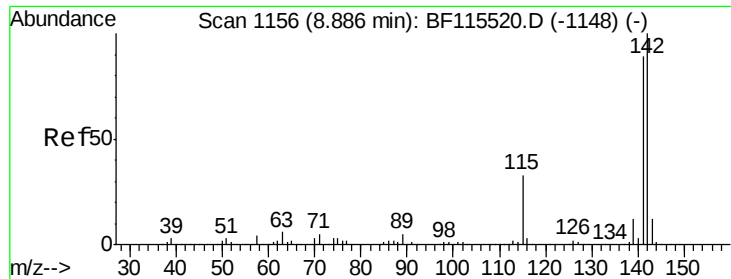
Tot Ion:	127	Resp:	135505
Ion	Ratio	Lower	Upper
127	100		
129	82.4	26.6	39.8#
65	0.0	23.7	35.5#
92	0.0	15.8	23.8#



#35
Caprolactam
Concen: 4.855 ng
RT: 8.87 min Scan# 1154
Delta R.T. 0.26 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion:	113	Resp:	11174
Ion	Ratio	Lower	Upper
113	100		
55	12.2	126.9	166.9#
56	7.0	90.3	130.3#

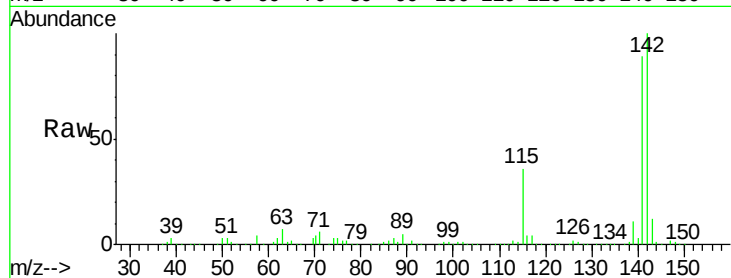




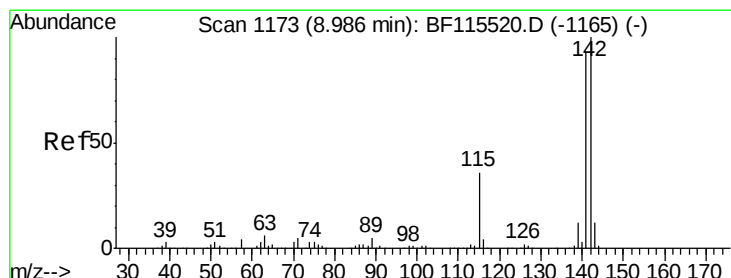
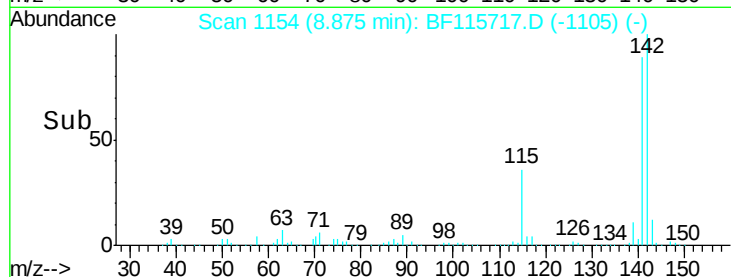
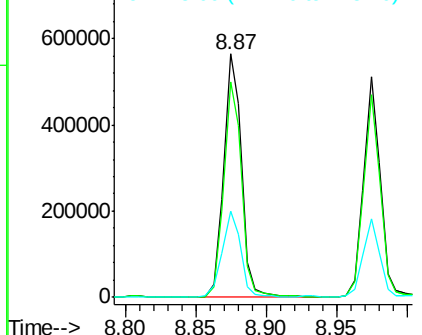
#37
2-Methylnaphthalene
Concen: 30.905 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	72.0	108.0
115	35.6	29.9	44.9

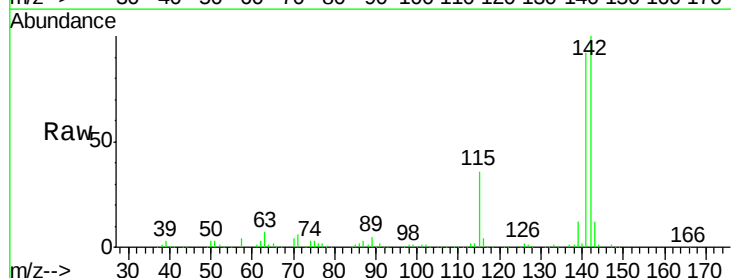


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

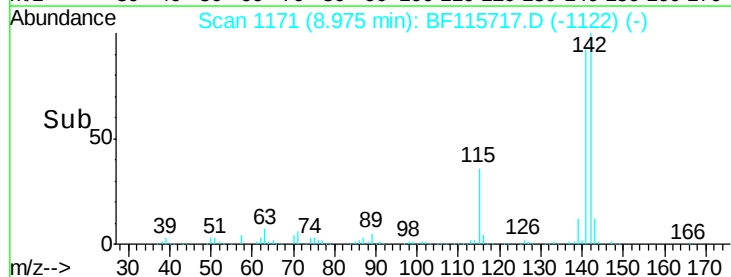
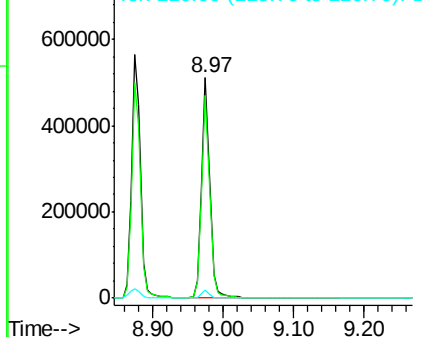


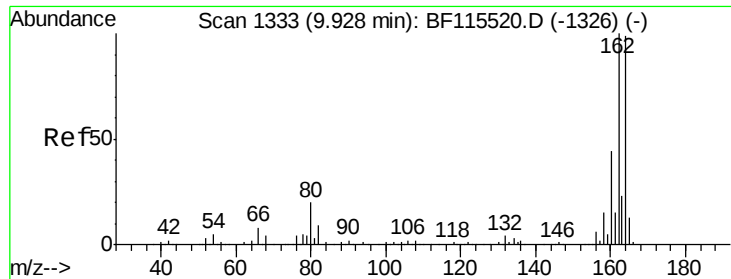
#38
1-Methylnaphthalene
Concen: 28.366 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.1	75.3	112.9
116	3.8	3.3	4.9



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

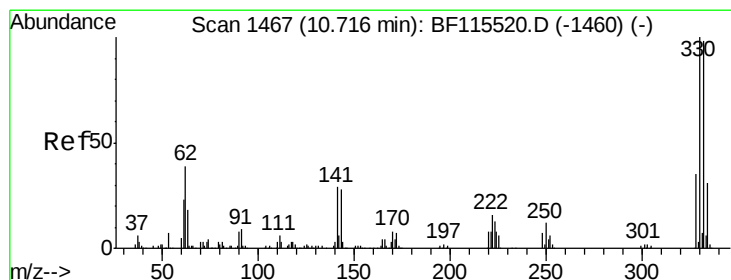
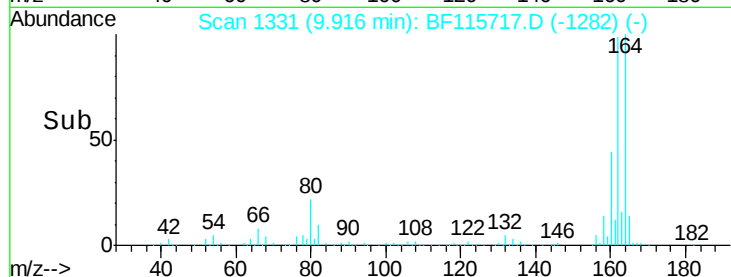
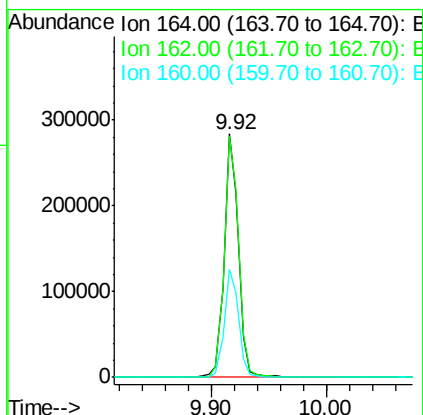
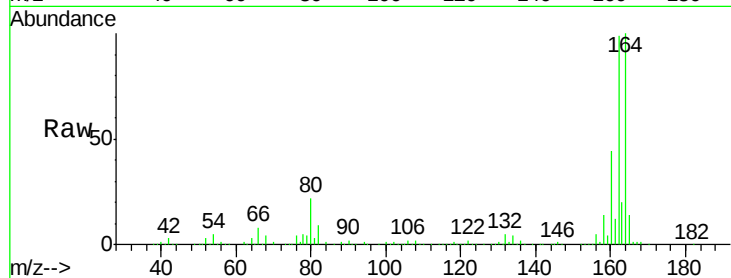




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

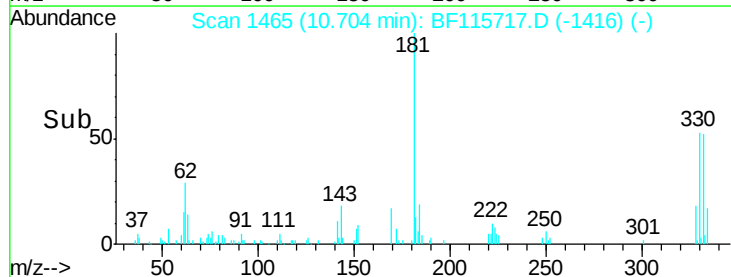
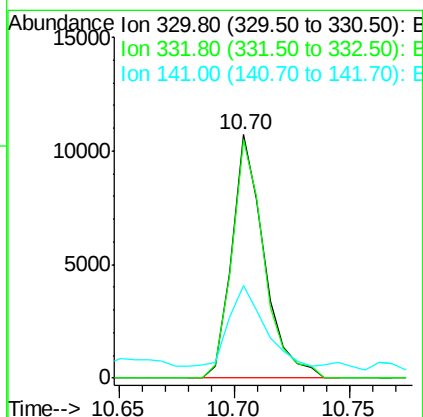
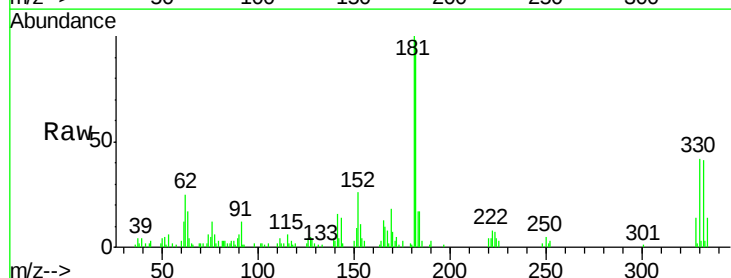
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BNA_F
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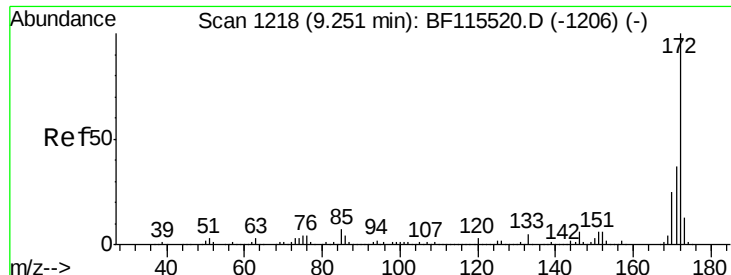
Tot Ion	Ratio	Lower	Upper
164	100		
162	99.0	82.9	124.3
160	44.2	36.8	55.2



#42
2,4,6-Tribromophenol
Concen: 3.693 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.4	77.4	116.2
141	50.4	22.4	33.6#

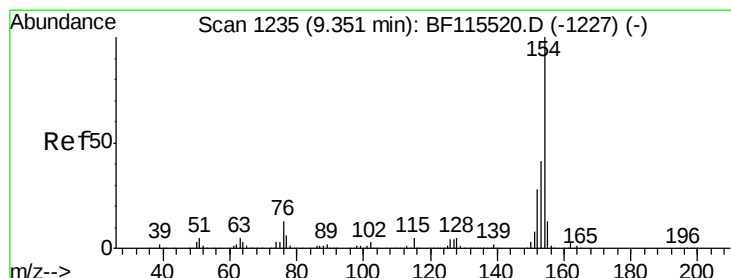
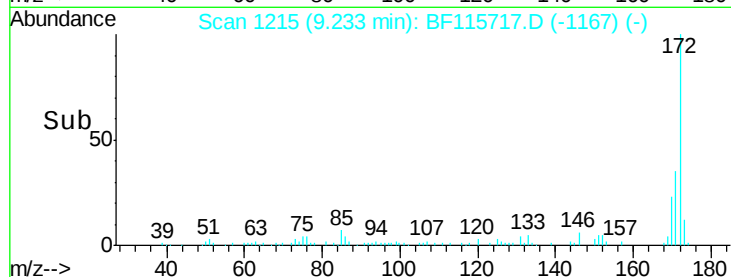
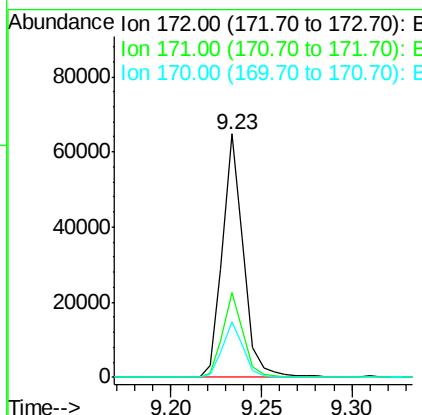
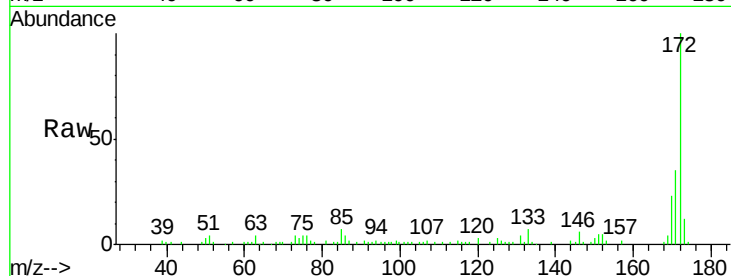




#45
 2-Fluorobiphenyl
 Concen: 3.765 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.02 min
 Lab File: BF115717.D
 Acq: 22 Jul 2019 18:47

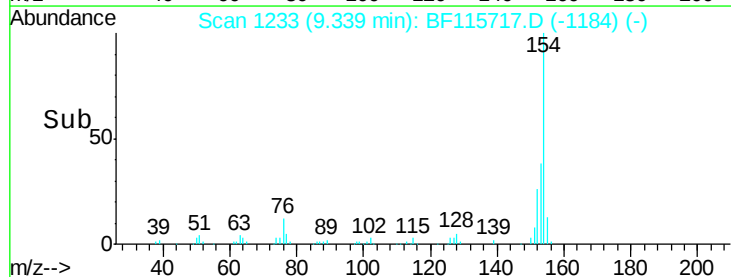
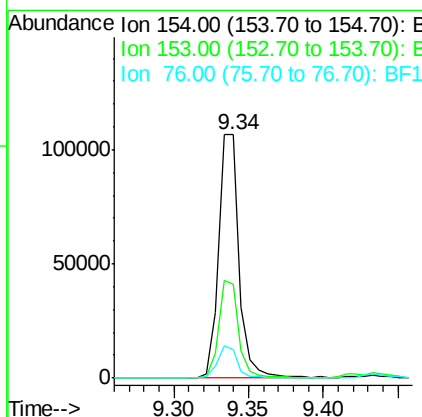
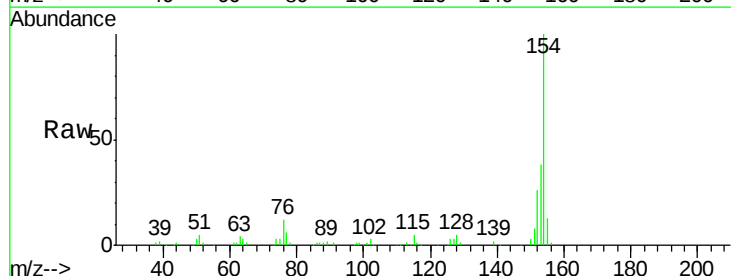
Instrument :
 BNA_F
 ClientSampleId :

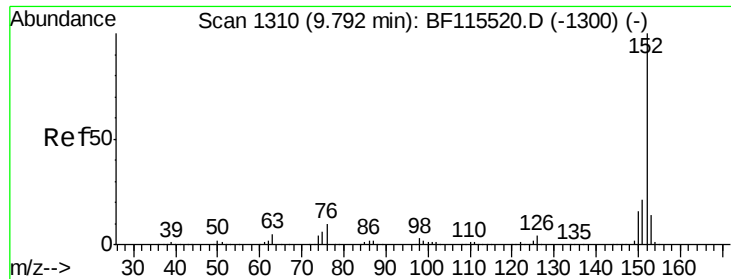
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	30.6	46.0
170	22.6	20.5	30.7



#46
 1,1'-Biphenyl
 Concen: 5.467 ng
 RT: 9.34 min Scan# 1233
 Delta R.T. -0.01 min
 Lab File: BF115717.D
 Acq: 22 Jul 2019 18:47

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.5	22.6	62.6
76	11.6	0.0	33.4





#49

Acenaphthylene

Concen: 8.999 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

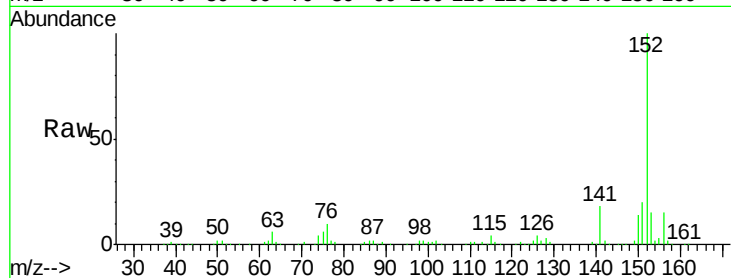
Tot Ion:152 Resp: 210394

Ion Ratio Lower Upper

152 100

151 19.8 17.7 26.5

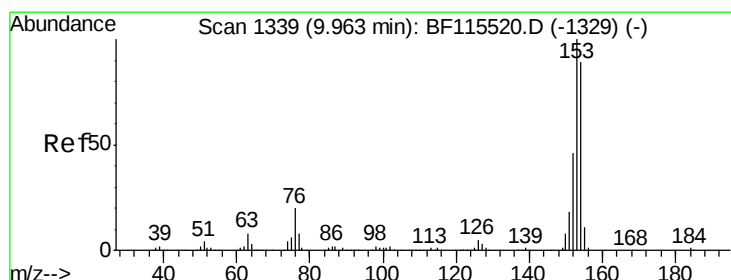
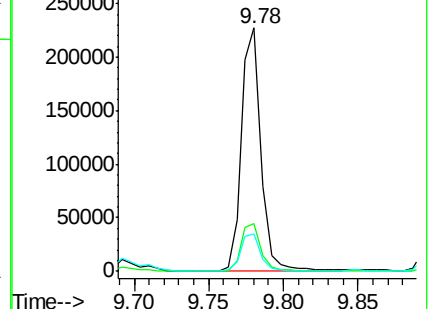
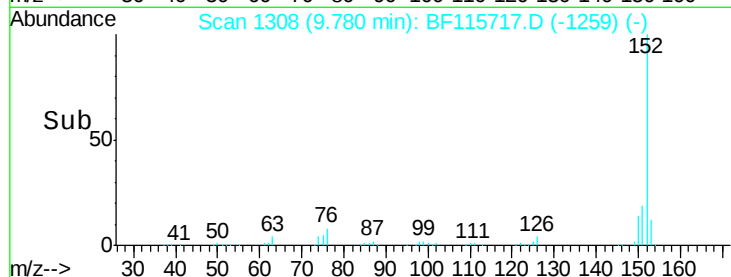
153 15.3 12.0 18.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#52

Acenaphthene

Concen: 3.706 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

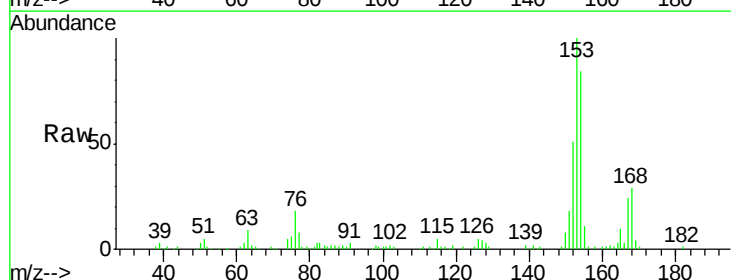
Tgt Ion:154 Resp: 55942

Ion Ratio Lower Upper

154 100

153 119.1 88.6 133.0

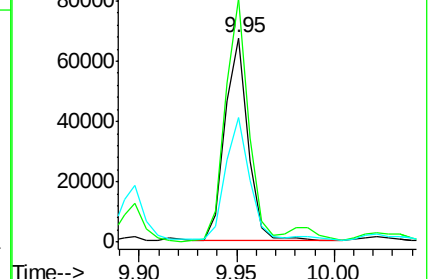
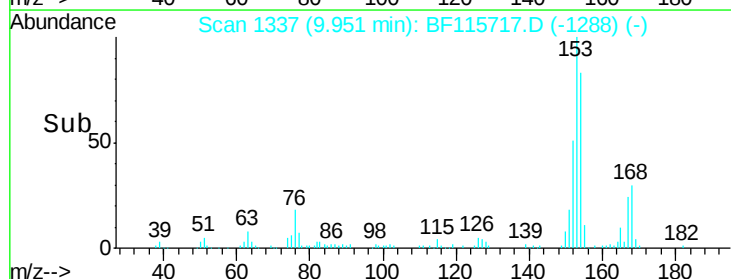
152 60.8 42.3 63.5

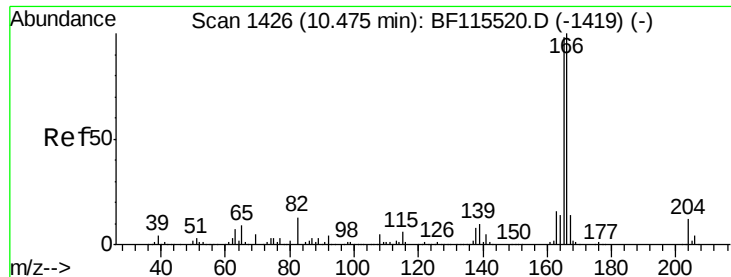


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#58

Fluorene

Concen: 20.735 ng

RT: 10.46 min Scan# 1424

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

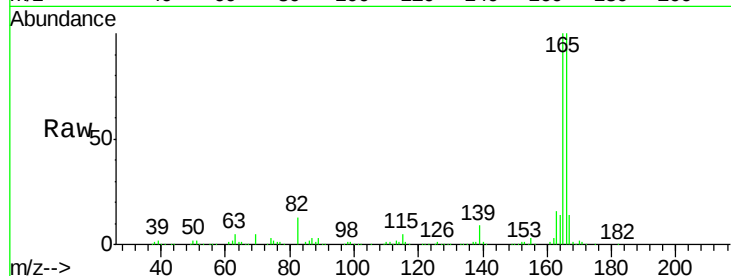
Tot Ion:166 Resp: 317724

Ion Ratio Lower Upper

166 100

165 99.5 79.8 119.6

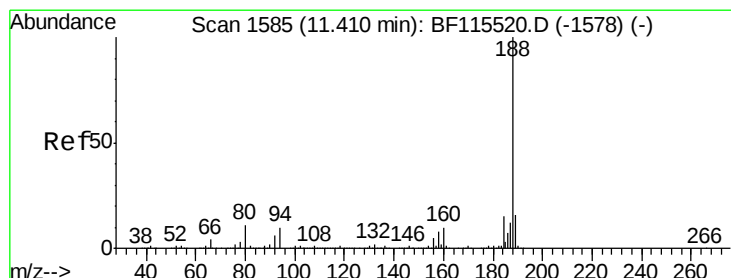
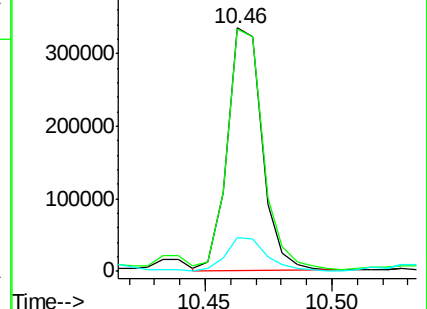
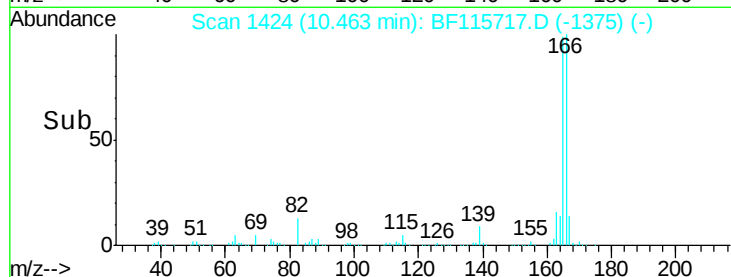
167 14.1 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

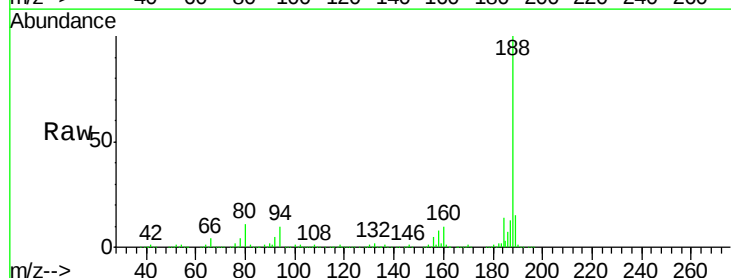
Tgt Ion:188 Resp: 363314

Ion Ratio Lower Upper

188 100

94 9.7 7.8 11.6

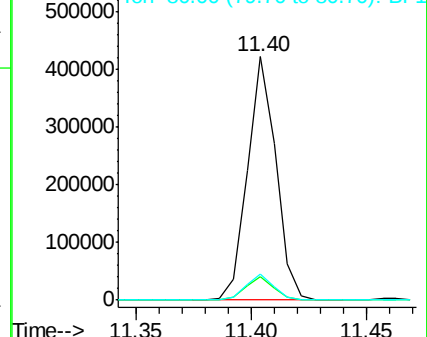
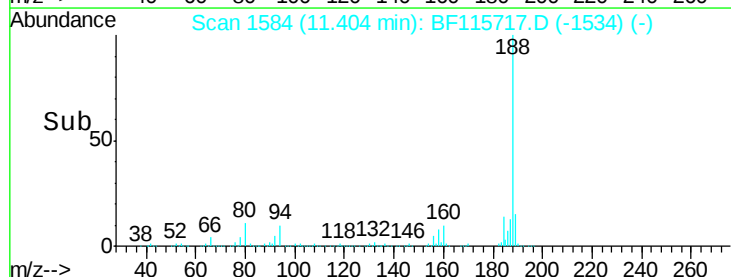
80 10.9 8.6 13.0

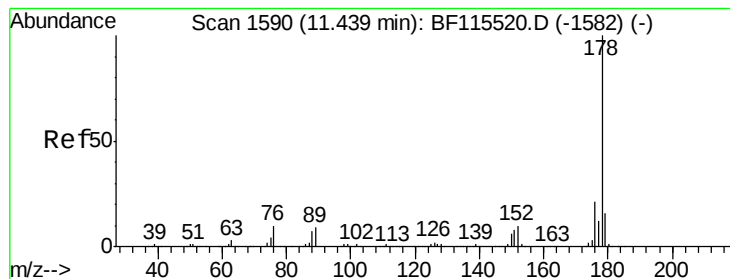


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 72.356 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

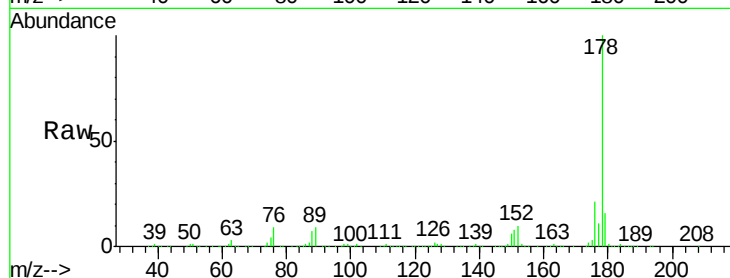
Tot Ion:178 Resp: 1347497

Ion	Ratio	Lower	Upper
178	100		
176	20.7	17.2	25.8
179	15.8	13.5	20.3

178 100

176 20.7 17.2 25.8

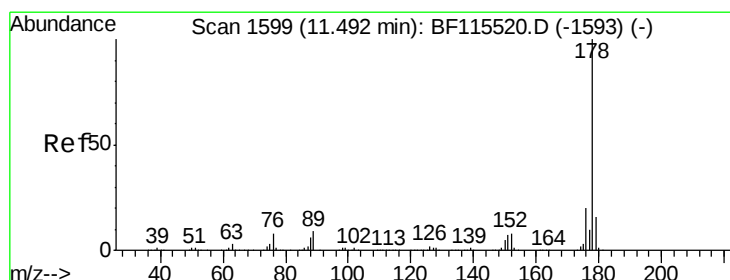
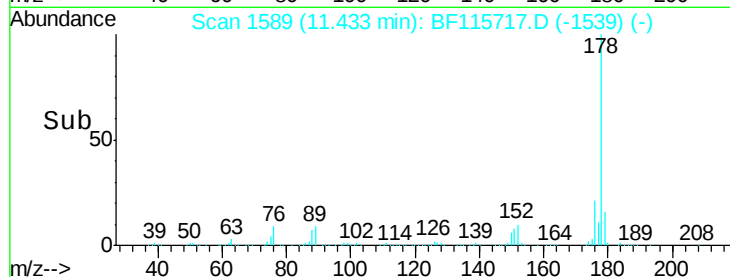
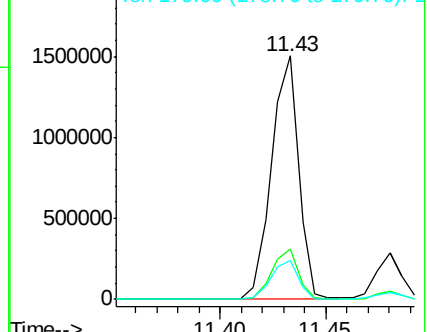
179 15.8 13.5 20.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 11.819 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

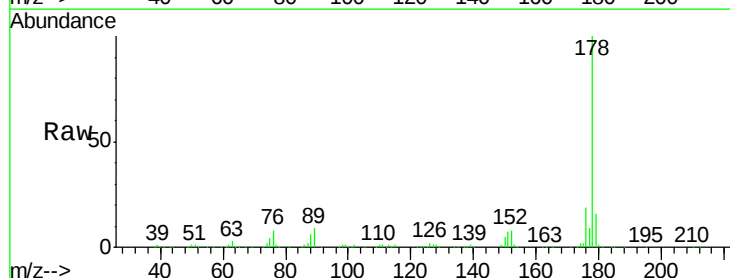
Tgt Ion:178 Resp: 227479

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.9	23.9
179	15.8	12.7	19.1

178 100

176 18.8 15.9 23.9

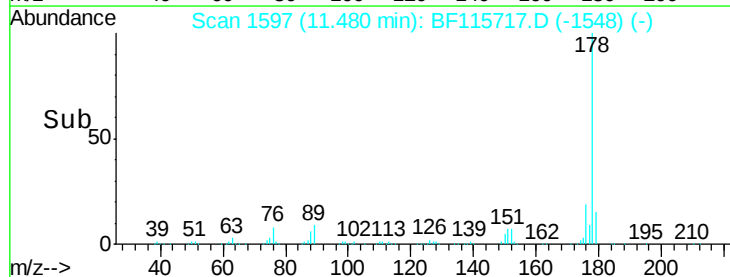
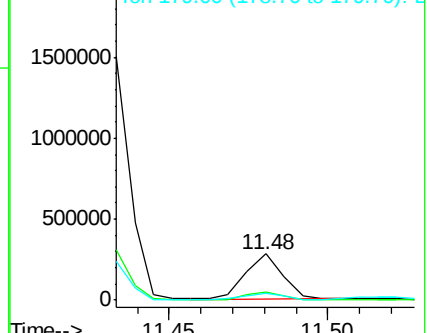
179 15.8 12.7 19.1

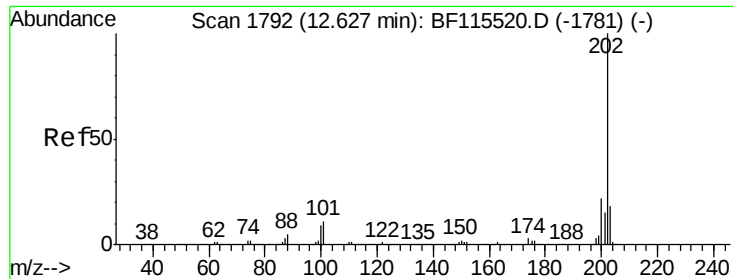


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 33.111 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

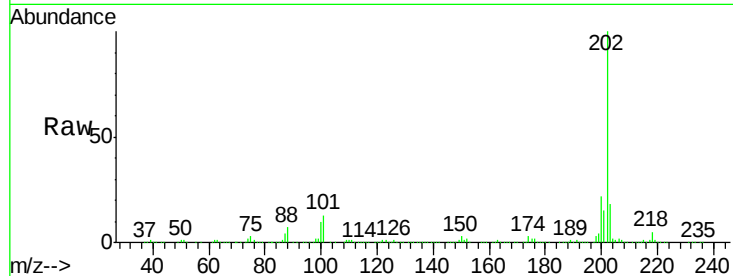
Tot Ion:202 Resp: 651610

Ion Ratio Lower Upper

202 100

101 13.5 0.0 31.4

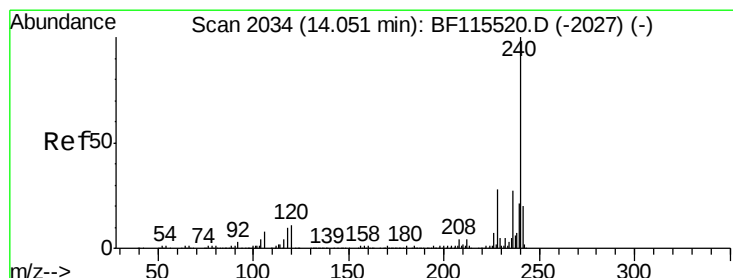
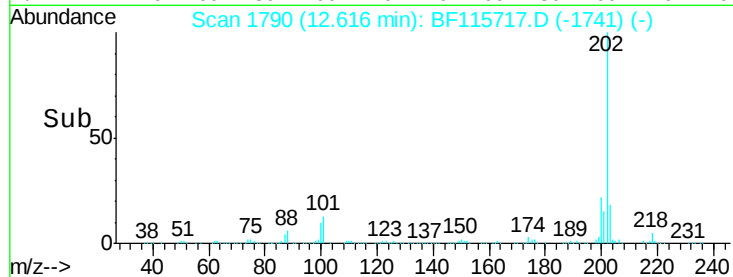
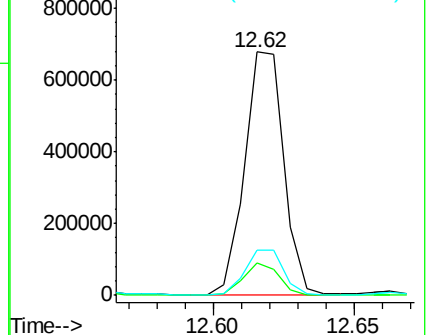
203 18.4 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

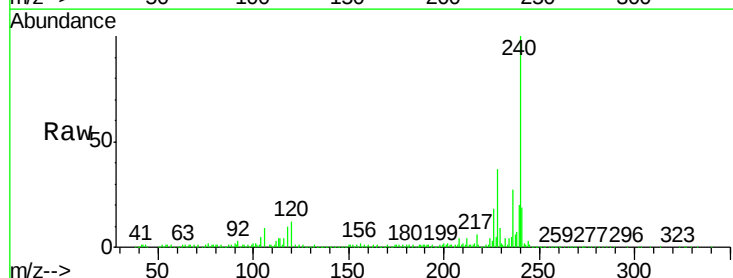
Tgt Ion:240 Resp: 317024

Ion Ratio Lower Upper

240 100

120 12.1 8.6 13.0

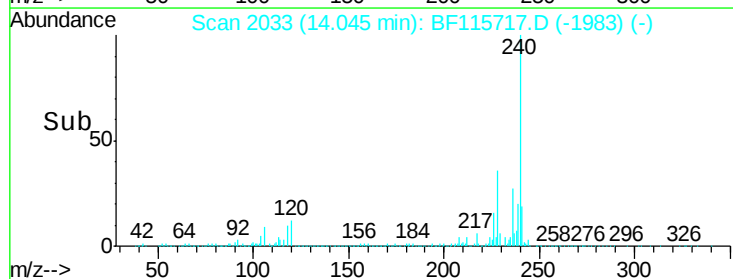
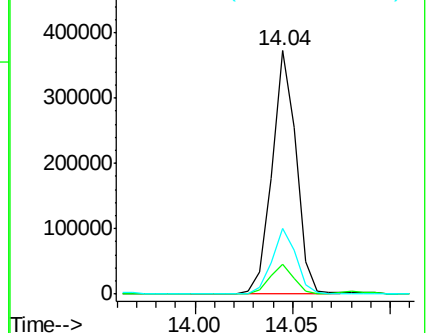
236 26.8 21.3 31.9

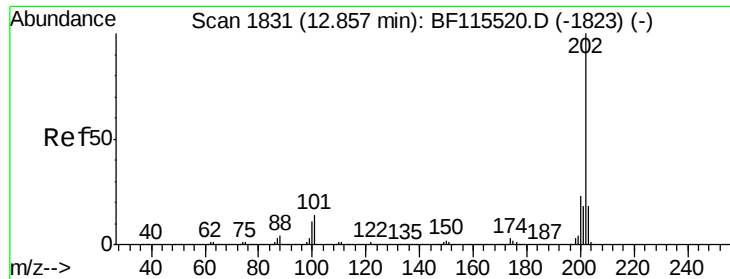


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

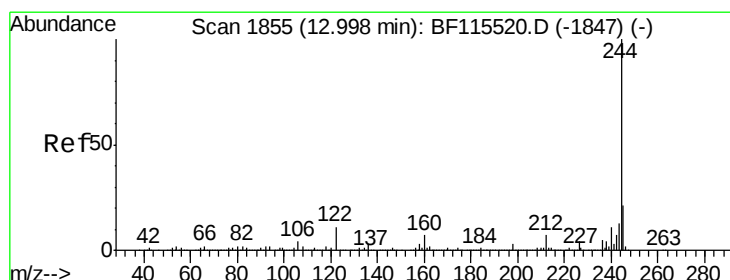
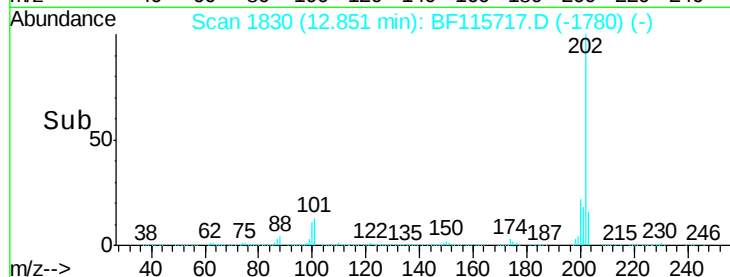
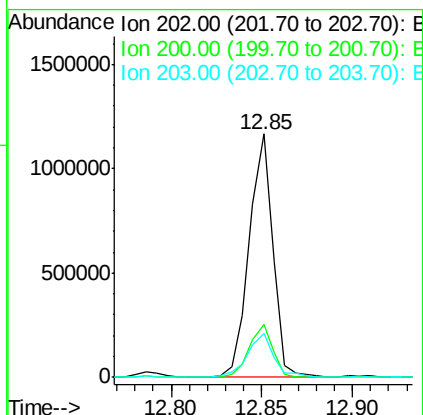
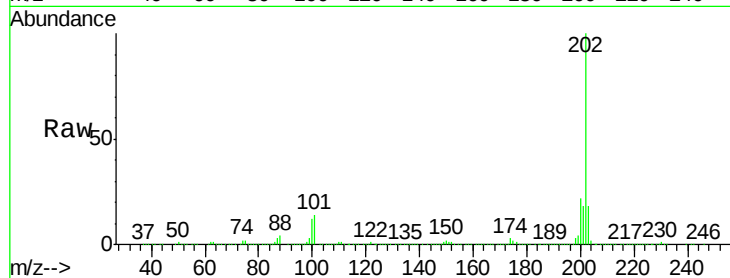




#78
Pvrene
Concen: 39.237 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

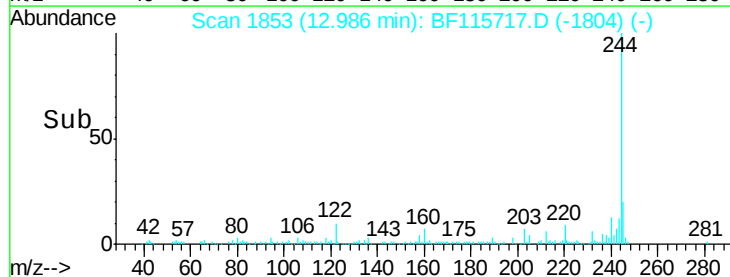
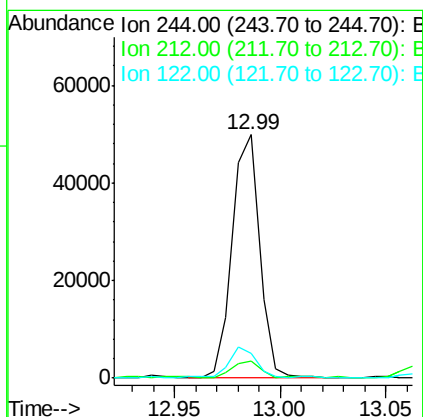
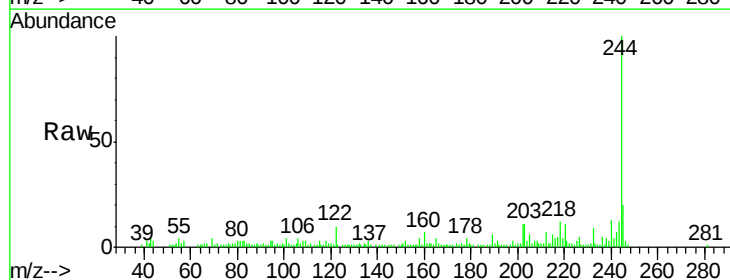
Instrument :
BNA_F
ClientSampleId :

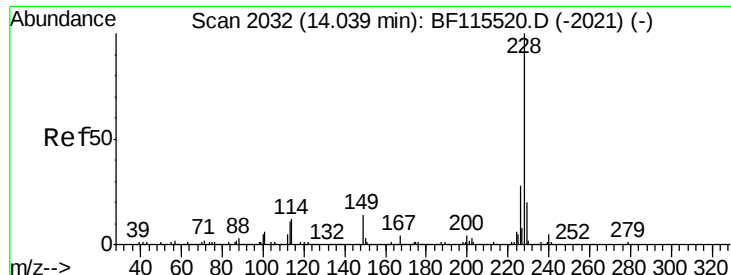
Tot Ion:202 Resp: 1053882
Ion Ratio Lower Upper
202 100
200 22.0 18.7 28.1
203 17.9 15.2 22.8



#79
Terphenyl-d14
Concen: 2.610 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion:244 Resp: 44844
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 10.0 8.6 12.8

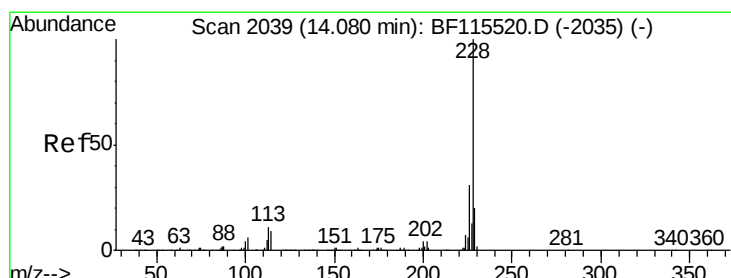
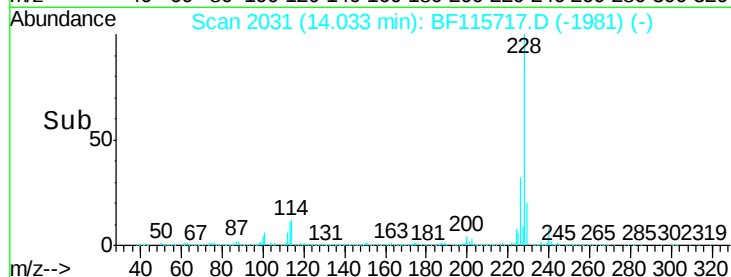
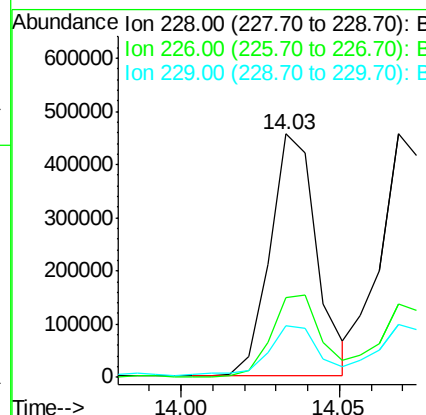
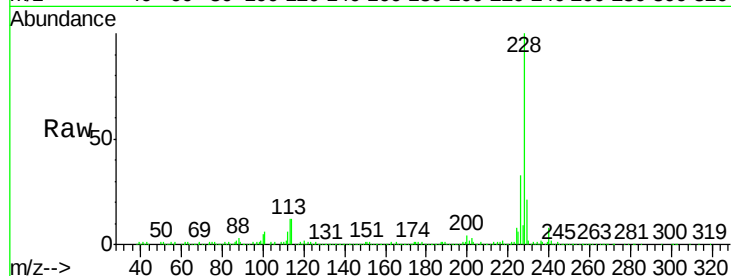




#81
Benzo(a)anthracene
Concen: 22.422 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

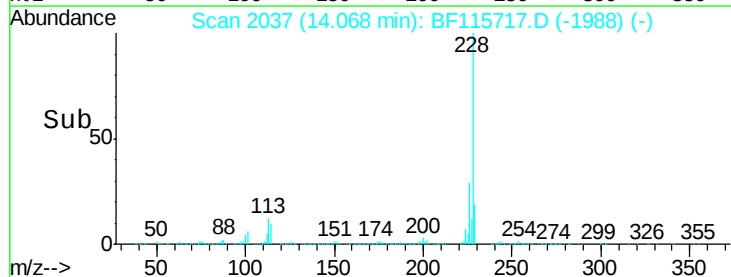
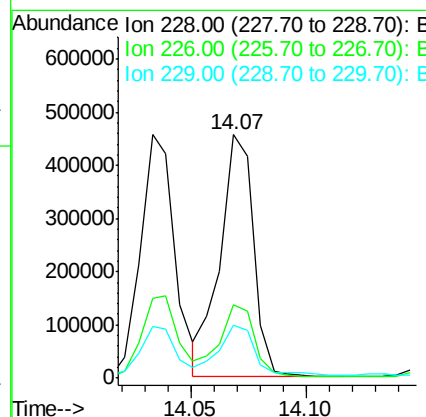
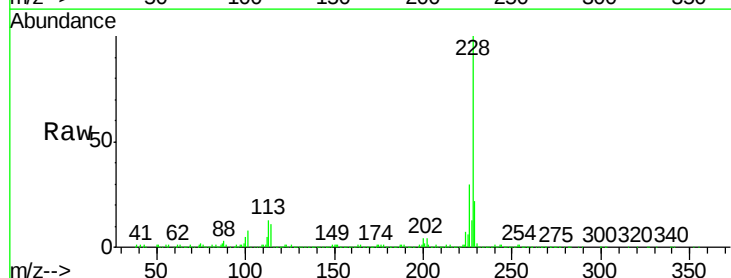
Instrument :
BNA_F
ClientSampleId :

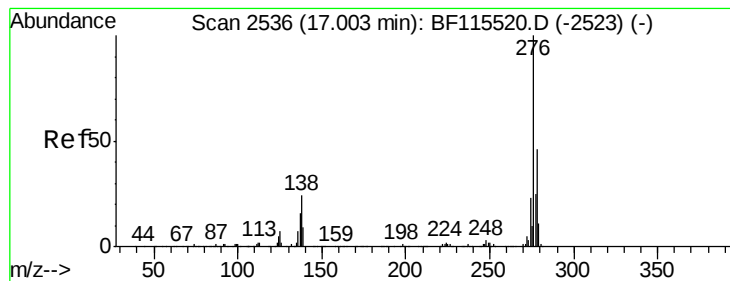
Tot Ion:228 Resp: 468295
Ion Ratio Lower Upper
228 100
226 32.7 23.4 35.0
229 21.4 17.2 25.8



#83
Chrysene
Concen: 21.823 ng
RT: 14.07 min Scan# 2037
Delta R.T. -0.01 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion:228 Resp: 457541
Ion Ratio Lower Upper
228 100
226 30.1 25.7 38.5
229 21.7 16.6 25.0





#86

Indeno(1,2,3-cd)pyrene

Concen: 6.010 ng

RT: 17.00 min Scan# 2536

Delta R.T. 0.00 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

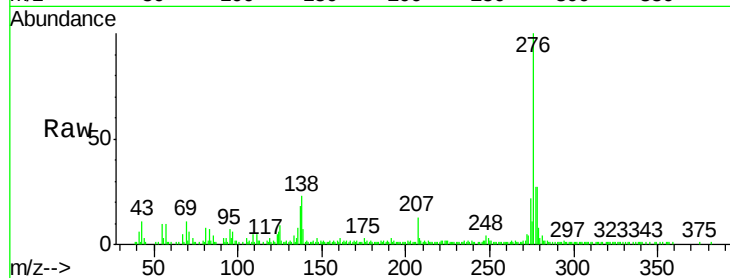
Tot Ion:276 Resp: 107050

Ion Ratio Lower Upper

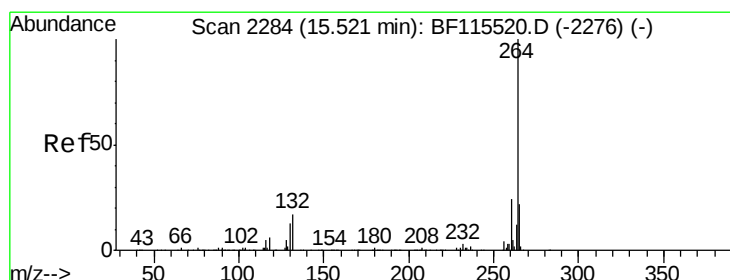
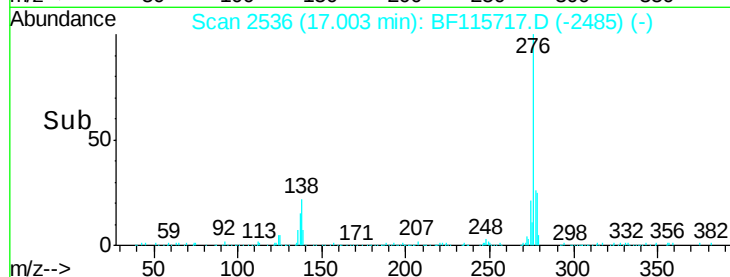
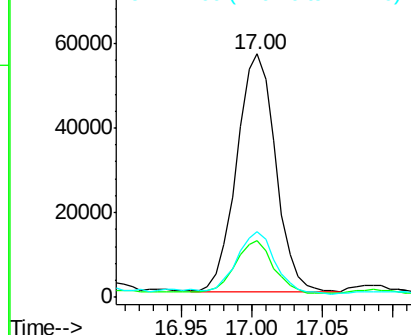
276 100

138 21.7 20.2 30.2

277 26.5 20.4 30.6



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.52 min Scan# 2284

Delta R.T. 0.00 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

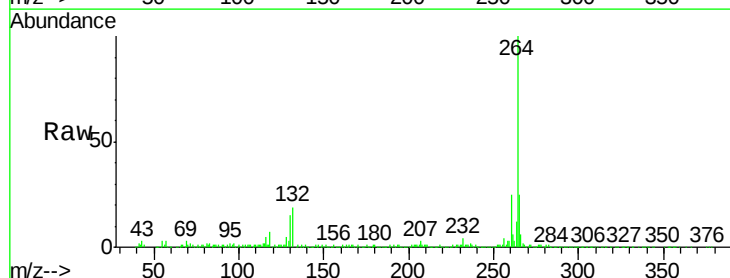
Tgt Ion:264 Resp: 305551

Ion Ratio Lower Upper

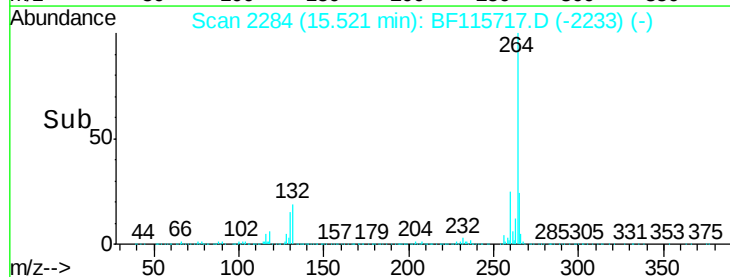
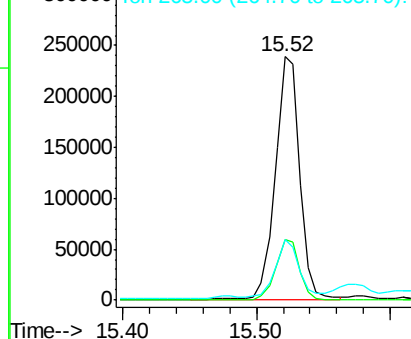
264 100

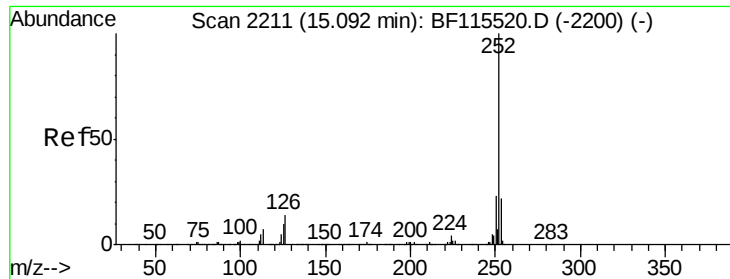
260 24.9 19.8 29.8

265 24.9 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 20.681 ng

RT: 15.09 min Scan# 2211

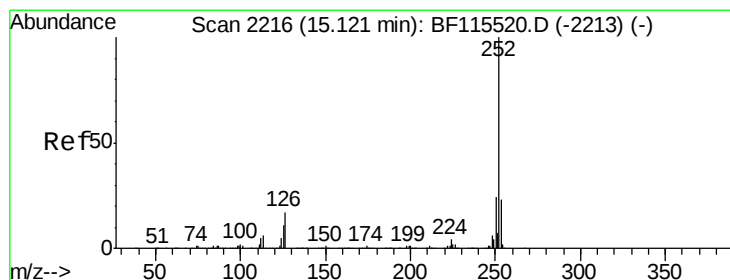
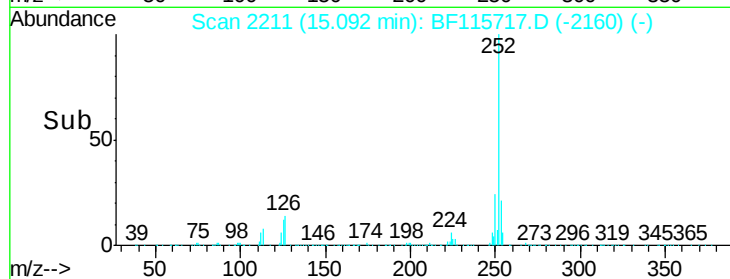
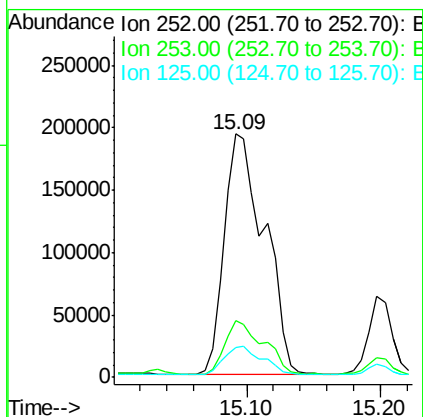
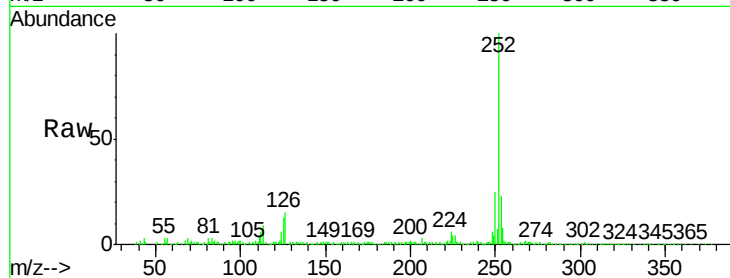
Delta R.T. 0.00 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	12.5	9.0	13.4



#89

Benzo(k)fluoranthene

Concen: 23.197 ng

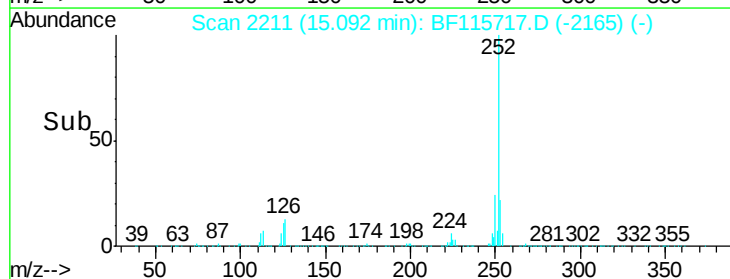
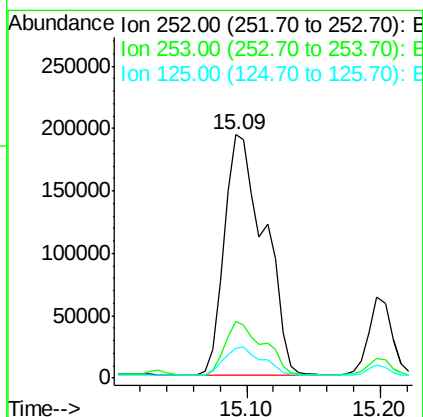
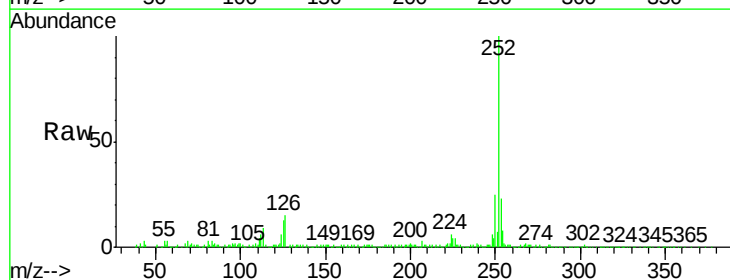
RT: 15.09 min Scan# 2211

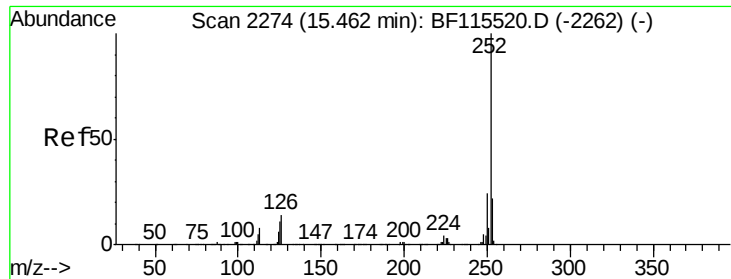
Delta R.T. -0.03 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.6	28.0
125	12.5	9.0	13.6

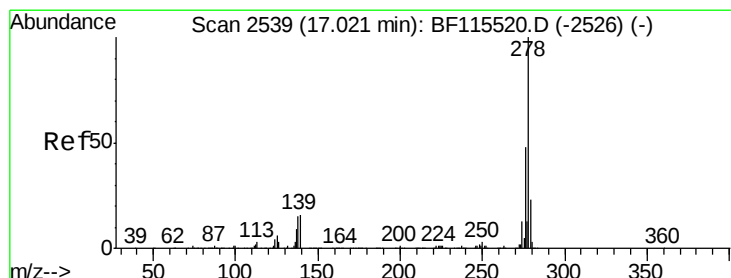
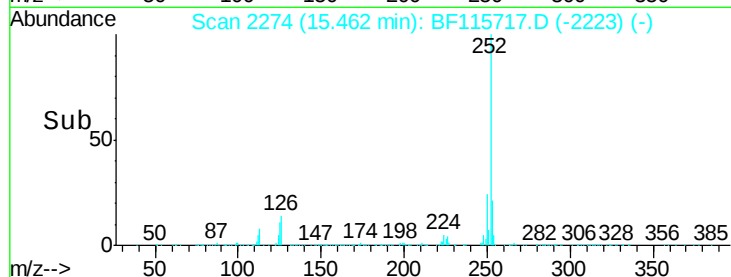
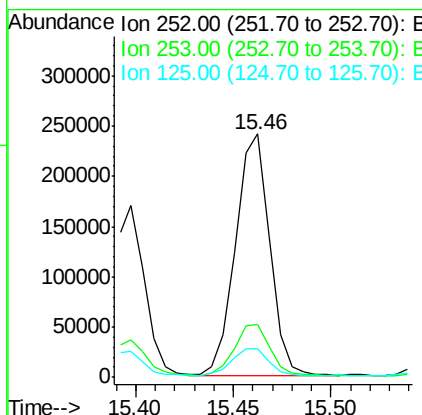
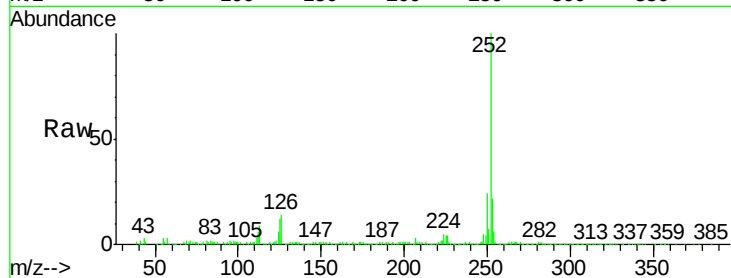




#90
Benzo(a)pyrene
Concen: 17.282 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.00 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

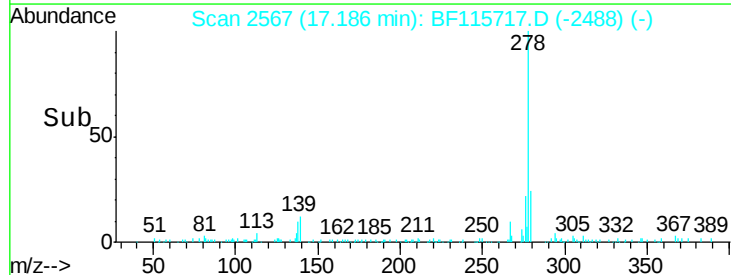
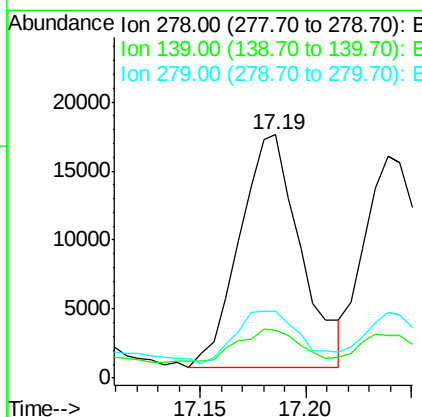
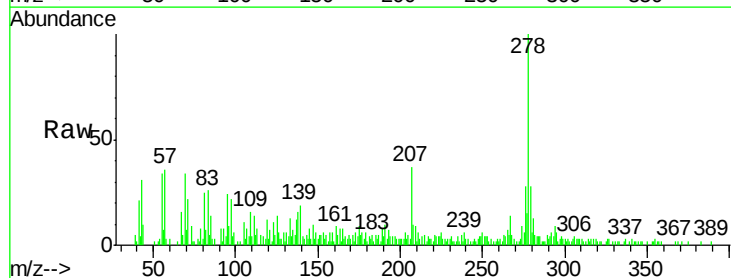
Instrument :
BNA_F
ClientSampleId :

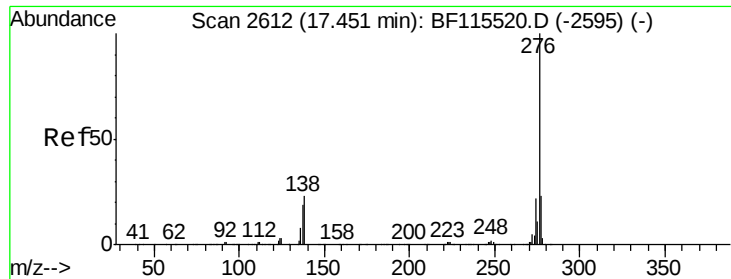
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	11.8	9.1	13.7



#91
Dibenzo(a,h)anthracene
Concen: 2.267 ng
RT: 17.19 min Scan# 2567
Delta R.T. 0.16 min
Lab File: BF115717.D
Acq: 22 Jul 2019 18:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.4	13.1	19.7
279	27.6	19.6	29.4





#92

Benzo(a,h,i)perylene

Concen: 8.240 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.01 min

Lab File: BF115717.D

Acq: 22 Jul 2019 18:47

Instrument :

BNA_F

ClientSampleId :

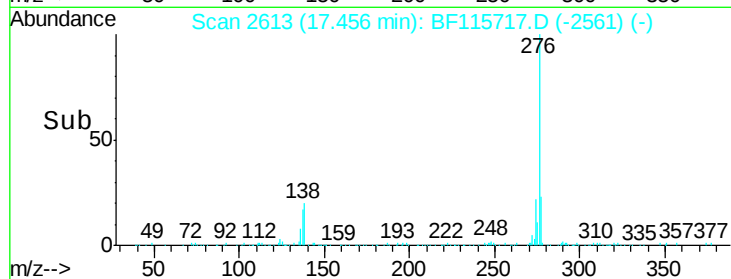
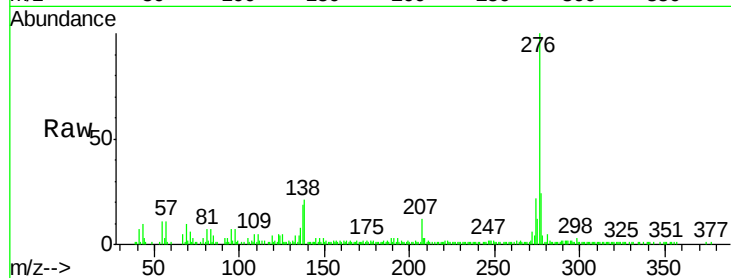
Tot Ion: 276 Resp: 122002

Ion Ratio Lower Upper

276 100

277 24.3 19.0 28.4

138 21.4 17.2 25.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

